

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A method comprising:

determining a markup-language Web service message at a first network entity usable to invoke a remote procedure call at a second network entity, wherein the Web service message includes a variant portion that changes for repeated invocations of the remote procedure call and an invariant portion that does not change for the repeated invocations of the remote procedure call;

forming a reduced message at the first network entity based on at least an unreduced representation of the variant portion of the Web service message and a reduced representation of the invariant portion of the Web service message; and

sending the reduced message targeted for the second network entity via a network to process the remote procedure call at the second network entity based on the reduced message.

2. (Previously presented) The method according to Claim 1, wherein the Web service message comprises a simple object access protocol message.

3. (Previously presented) The method according to Claim 1, wherein forming the reduced message comprises forming reference data based on the invariant portion of the Web service message and including the reference data in the reduced message.

4. (Original) The method according to Claim 3, wherein the reference data comprises a binary representation of the invariant portion.

5. (Original) The method according to Claim 3, wherein the reference data comprises a reference to a data store containing criteria for creating a reproduction of the invariant portion.

6. (Original) The method according to Claim 5, wherein the reference to the data store comprises a Universal Resource Identifier (URI).

7. (Previously presented) The method according to Claim 1, wherein invoking the remote procedure call at the second network entity based on the reduced message comprises:
- forming a reproduction of the Web service message based on the reduced message; and
 - processing the reproduction of the Web service message at the second network entity.
8. (Original) The method according to Claim 7, wherein forming the reduced message comprises forming reference data based on an invariant portion of the Web service message and including the reference data in the reduced message.
9. (Original) The method according to Claim 8, wherein forming the reproduction of the Web service message comprises forming the reproduction of the Web service message from a reproduction of the invariant portion of the Web service message.
10. (Previously presented) The method according to Claim 8, wherein the reference data comprises a binary representation of the invariant portion.
11. (Previously presented) The method according to Claim 8, wherein the reference data comprises a reference to a data store containing criteria for creating a reproduction of the invariant portion.
12. (Original) The method according to Claim 11, wherein the reference to the data store comprises a Universal Resource Identifier (URI).
13. (Currently amended) A messaging system, comprising:
- a first data processing arrangement configured to determine a markup-language Web service message usable to invoke a remote procedure call via a network, wherein the Web service message includes a variant portion that changes for repeated invocations of the remote procedure call, and an invariant portion that does not change for the repeated invocations of the remote procedure call, the first data processing arrangement further configured to form and transmit, via

the network, a reduced message based on at least an unreduced representation of the variant portion of the Web service message and a reduced representation of the invariant portion of the Web service message;

a message processing arrangement coupled to receive the reduced message and transmit a reproduction of the Web service message based on the reduced message; and

a second data processing arrangement coupled to receive the reproduction of the Web service message and process the remote procedure call based on the reproduction of the Web service message.

14-16. (Canceled)

17. (Currently amended) A messaging system, comprising:

a first data processor configured to transmit a markup-language Web service message to invoke a remote procedure call via a network, the Web service message including a variant portion that changes for repeated invocations of the remote procedure call, and an invariant portion that does not change for the repeated invocations of the remote procedure call;

a message processor configured to receive the Web service message, form a reduced message based on at least an unreduced representation of the variant portion of the Web service message and a reduced representation of the invariant portion of the Web service message, and transmit the reduced message to invoke the remote procedure call;

a second data processor configured to receive the reduced message and process the remote procedure call based on the reduced message.

18. (Canceled)

19. (Previously presented) The messaging system according to Claim 17, wherein the second data processor is further configured to form a reproduction of the Web service message based on the reduced message and transmit the reproduction of the Web service message, the messaging system further comprising a third data processor configured to receive the reproduction of the

Web service message and process the remote procedure call based on the reproduction of the Web service message.

20. (Previously presented) The messaging system according to Claim 17, further comprising a data storage device having a criteria accessible by the message processor, the criteria used by the message processor to form the reduced message based at least on the variant portion of the Web service message.

21. (Currently amended) An apparatus comprising:

a transceiver configured to facilitate exchanges with a network element to invoke a remote procedure call; and

a processor coupled to the transceiver and configured via instructions to cause the apparatus at least to:

determine a markup-language Web service message usable to invoke the remote procedure call, wherein the Web service message includes a variant portion that changes for repeated invocations of the remote procedure call, and an invariant portion that does not change for the repeated invocations of the remote procedure call;

form an outgoing reduced message based on at least an unreduced representation of the [[a]] variant portion of [[a]]the Web service message and a reduced representation of the invariant portion of the Web service message~~determined by a Web services processing module in response to invoking a remote procedure call via a network, wherein the Web service message includes the variant portion that changes for repeated invocations of the remote procedure call, and an invariant portion that does not change for the repeated invocations of the remote procedure call; and~~

send the reduced message targeted for the network element to process the remote procedure call based on the reduced message.

~~form a reproduced Web service message targeted for the Web services processing module based on an incoming reduced message from the network, wherein the incoming reduced message is formed based on at least an incoming variant portion of an externally determined markup language Web service message determined in response to invoking~~

~~the remote procedure call, wherein the externally determined Web service message includes the incoming variant portion that changes for repeated invocations of the remote procedure call, and an externally determined invariant portion that does not change for the repeated invocations of the remote procedure call; and~~
~~a transceiver configured to facilitate exchange of the incoming and outgoing reduced messages with a network element to invoke the remote procedure call.~~

22. (Previously presented) The apparatus according to Claim 21, wherein the Web service messages include simple object access protocol messages.

23. (Currently amended) A computer-readable medium having instructions stored thereon which are executable by an apparatus for performing ~~operations comprising~~:

determining a markup-language Web service message at a first network entity usable to invoke a remote procedure call at a second network entity, wherein the Web service message includes a variant portion that changes for repeated invocations of the remote procedure call and an invariant portion that does not change for the repeated invocations of the remote procedure call;

forming a reduced message at the first network entity based on at least [[a]] an unreduced representation of the variant portion of the Web service message and a reduced representation of the invariant portion of the Web service message;

sending the reduced message targeted for the remote data processing arrangement; and
receiving a response message from the remote data processing arrangement in response to an invocation of the remote procedure call based on the reduced message.

24. (Previously presented) The computer readable medium according to Claim 23, wherein the response message comprises a reduced response message based on at least a variant portion of a Web service response message generated by the remote data processing arrangement, wherein the variant portion of the Web service response message changes for the repeated invocations of the remote procedure call.

25. (Currently amended) The computer readable medium according to Claim 24, wherein the instructions are further executable for performing operations further comprise:

forming a reproduction of the Web service response message based on the reduced response message; and

processing the reproduction of the Web service response message.

26. (Previously presented) The computer readable medium according to Claim 23, wherein the Web service message comprises a simple object access protocol message.

27. (Currently amended) An apparatus, comprising:

memory storing instructions; and

a processor coupled to the memory and configured via the instructions to cause the apparatus at least to:

receive a reduced message via a network based on at least an unreduced representation of a variant portion of a Web service message and a reduced representation of an invariant portion of the Web service message, wherein the Web service message originates ~~originating~~ from a first terminal and is targeted to invoke a remote procedure call at a second terminal, wherein ~~the Web service message includes the variant portion that~~ of the Web service message changes for repeated invocations of the remote procedure call, and [[an]]the invariant portion of the Web service message that does not change for the repeated invocations of the remote procedure call;

form a reproduction of the Web service message based on the reduced message; and

send the reproduction of the Web service message to the second terminal ~~via the network~~ to invoke the remote procedure call.

28. (Currently amended) The apparatus according to Claim 27, wherein the ~~instructions~~ processor further causes the processor apparatus to access a data store containing criteria for forming the reproduction of the Web service message based on the reduced message.

29. (Previously presented) The apparatus according to Claim 27, wherein the Web service message comprises a simple object access protocol message.

30. (Currently amended) An apparatus comprising:

means for forming an outgoing reduced message based on at least an unreduced representation of a variant portion of a markup language Web service message and a reduced representation of an invariant portion of the Web service message, wherein the Web service message is determined at the mobile terminal in response to invoking a remote procedure call via a network, and wherein the ~~Web service message includes~~ the variant portion ~~that changes for~~ repeated invocations of the remote procedure call, and ~~[[an]]the invariant portion that does not~~ change for the repeated invocations of the remote procedure call;

means for forming a reproduced Web service message based on incoming reduced messages from the network, wherein the incoming reduced message is formed based on at least an unreduced representation of an incoming variant portion of an external externally determined markup language Web service message and a reduced representation of an invariant portion of the external Web service message, wherein the external Web service message is generated in response to invoking the remote procedure call, wherein the ~~externally determined Web service message includes~~ the incoming variant portion of the external Web service message that changes for the repeated invocations of the remote procedure call, and ~~wherein an externally determined~~ the invariant portion of the external Web service message that does not change for the repeated invocations of the remote procedure call;

means for processing the reproduced Web service messages; and

means for facilitating exchange of the incoming and outgoing reduced messages with a network element to invoke the remote procedure call.

31. (Previously presented) The apparatus of Claim 30, wherein the Web service messages include simple object access protocol messages.

32. (Previously presented). The apparatus of Claim 21, wherein the apparatus comprises a mobile terminal.

33. (Previously presented) The apparatus of Claim 27, wherein the apparatus comprises a server.

34. (Previously presented) The apparatus of Claim 30, wherein the apparatus comprises a mobile terminal.

35. (New) The apparatus according to Claim 21, wherein the processor is further configured via the instructions to cause the apparatus to form a reproduced Web service message based on an incoming reduced message from the network, wherein the incoming reduced message is formed based on at least an unreduced representation of a variant portion of an external markup language Web service message and a reduced representation of an invariant portion of the external Web service message, wherein the variant portion of the external Web service message changes for the repeated invocations of the remote procedure call, and wherein the invariant portion of the external Web service message does not change for the repeated invocations of the remote procedure call.

36. (New) The apparatus according to Claim 21, wherein the reduced representation of the invariant portion of the Web service message comprises reference data based on the invariant portion of the Web service message.

37. (New) The apparatus according to Claim 36, wherein the reference data comprises a binary representation of the invariant portion.

38. (New) The apparatus according to Claim 36, wherein the reference data comprises a reference to a data store containing criteria for creating a reproduction of the invariant portion.